

ABSTRACT OF THE DISCLOSURE

A hard film formed by an arc-discharge ion-plating method, having a composition comprising metal components represented by $Al_xCr_{1-x-y}Si_y$, wherein x and y are respectively atomic ratios meeting $0.45 \leq x \leq 0.75$, $0 \leq y \leq 0.35$, and $0.5 \leq x + y < 1$, and non-metal components represented by $N_{1-\alpha-\beta-\gamma}B_\alpha C_\beta O_\gamma$, wherein α , β and γ are respectively atomic ratios meeting $0 \leq \alpha \leq 0.15$, $0 \leq \beta \leq 0.35$, and $0.003 \leq \gamma \leq 0.25$, the hard film having an NaCl-type crystal structure, with a half width of 2θ at an X-ray diffraction peak corresponding to a (111) face or a (200) face being $0.5-2.0^\circ$, and the hard film containing oxygen more in grain boundaries than in crystal grains.